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AMENDMENTS TO THE CLAIMS

1. (Currently amended) A process for operating a yellow flame burner suitable for heating homes comprising:
providing a yellow flame burner adapted for domestic heating with fuel comprising a Fischer-Tropsch-derived fuel;
burning the Fischer-Tropsch-derived fuel in the burner to obtain flue gases and a heat of combustion; and,
performing one or more procedure selected from the group consisting of heating water by indirect heat exchange with the flue gases in one or more boiler and heating space directly with the flue gases, a
Fischer-Tropsch-derived fuel in the burner to obtain flue gases and a flame wherein the Fischer-Tropsch-derived fuel comprises a Fischer-Tropsch product which contains more than 80 wt.% of iso and normal paraffins, less than 1 wt.% aromatics, less than 5 ppm sulfur and less than 1 ppm nitrogen and wherein the density of the Fischer-Tropsch-derived product is between 0.65 and 0.8 g/cm³ at 15 °C.
2. (Currently amended) The process of claim 1 wherein the conditions comprise a value of lambda of from about is between 1 and to about 1.6
3. (Currently amended) The process of claim 2 wherein the conditions comprise a value of lambda of from about is between 1.05 and to about 1.2.
4. (Currently amended) The process of claim 1 wherein the procedure is, further comprising heating water by means of indirect heat exchange with the flue gases in a one or more boiler.
5. (Currently amended) The process of claim 1 wherein the procedure is, further comprising heating a space directly with the flue gases.
6. (Currently amended) The process of claim 1 wherein 90 wt.% or more of the Fischer-Tropsch derived fuel boils at a first temperature in a first range of from for more than 90 wt.% between about 160 °C and to about 400 °C.
7. (Currently amended) The process of claim 6 wherein 90 wt.% or more of the Fischer-Tropsch derived fuel boils at a first temperature in a first range of from for more than 90 wt.% between about 160 °C and to about 370 °C.

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8. (Cancelled)

9. (Currently amended) The process of claim 1, wherein more than 80 wt. % of the Fischer-Tropsch derived fuel comprises more than 80 wt% of a Fischer-Tropsch product.

10. (Currently amended) The process of claim 9, wherein the Fischer-Tropsch derived fuel comprises one or more fraction selected from the group consisting of a mineral oil fraction and/or a non-mineral oil fraction.

11. (Currently amended) ~~The process of claim 1~~ A process for operating a yellow flame burner comprising:

providing a yellow flame burner adapted for domestic heating with fuel

comprising a Fischer-Tropsch-derived fuel;

burning the Fischer-Tropsch derived fuel in the burner to obtain flue gases

and a heat of combustion ; and,

performing one or more procedure selected from the group consisting of

heating water by indirect heat exchange with the flue gases in one or

more boiler and heating space directly with the flue gases, said

procedure further comprising -starting the yellow flame burner more than three times per hour.

12. (Currently amended) The process of claim 1 ~~[[.]]~~ wherein the Fischer-Tropsch-Tropsch-derived fuel comprises one or more additives.

13. (Currently amended) The process of claim 12 ~~[[.]]~~ wherein the Fischer-Tropsch-Tropsch-derived fuel further comprises [[an]]one or more odor marker.

14. (Currently amended) The process of claim 12, wherein the Fischer-Tropsch-Tropsch-derived fuel comprises [[a]]one or more color marker.

15. (Currently amended) The process of claim 12, wherein the Fischer-Tropsch-derived fuel further comprises one or morean additive is present which changes the color of the flame such that isto be detectable by a yellow flame detector.

16. (Currently amended) The process of claim 1 ~~[[.]]~~ further comprising using wherein a blue flame detector is used to detect the yellow flame burner flame.

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17. (Currently amended) The process of claim 16[[.]] further comprising detecting the flame of the yellow flame burner with an ionization type flame detector and wherein the fuel does not contain a metal-based combustion improver.
18. (New) The method of claim 1 wherein the flue gasses comprise a reduced quantity of NO_x compared to the quantity of NO_x produced burning a non-Fischer-Tropsch-derived fuel under the same conditions.
19. (New) The method of claim 1 wherein the flue gasses comprise a reduced quantity of carbon monoxide compared to the quantity of carbon monoxide produced burning a non-Fischer-Tropsch-derived fuel under the same conditions.
20. (New) The method of claim 19 wherein the flue gasses comprise a reduced quantity of carbon monoxide compared to the quantity of carbon monoxide produced burning a non-Fischer-Tropsch-derived fuel under the same conditions.
21. (New) A process for operating a yellow flame burner comprising:
providing a yellow flame burner adapted for domestic heating with fuel comprising a Fischer-Tropsch-derived fuel;
burning the Fischer-Tropsch derived fuel in the burner to obtain flue gases and a heat of combustion ; and,
performing one or more procedure selected from the group consisting of heating water by indirect heat exchange with the flue gases in one or more boiler and heating space directly with the flue gases;
wherein the Fischer-Tropsch derived fuel comprises a Fischer-Tropsch product which contains more than 80 wt.% of iso and normal paraffins, less than 1 wt% aromatics, less than 5 ppm sulfur and less than 1 ppm nitrogen and wherein the density of the Fischer-Tropsch derived product is between 0.65 and 0.8 g/cm³ at 15 °C.